

AMENDMENTS TO THE CLAIMS

1. - 14. (canceled)

15. (new) A needleless injection device including a lower part receiving an agent cartridge and an upper part providing the energy needed for the injection, the upper part containing energy store units, including at least one start unit and at least one supplementary unit, capable of elastic form-change, the device further comprising:

- a lock mechanism maintaining tension of the energy store units and a release mechanism for releasing the lock mechanism;

- a tubular section of the lower part, provided with an external thread, extends into the upper part, the external thread coupling with an internal thread provided in the upper part, whereby the lower part is attached to the upper part in a revolving manner, and is movable telescopically within the upper part for producing a tension state of the energy store units;

- the at least one start unit being capable of storing 60-90% of the energy needed for total discharge and being capable of reversible elastic distortion of 15-25% of an internal length of the agent cartridge; and wherein

- the start unit includes a bundle of polyurethane springs fitted inside the device in a separate case; and

- a spacer, movable independently of the at least one supplementary unit, applies energy from the springs of the start unit via the lock mechanism to contents of the agent cartridge.

16. (new) The device according to claim 15, wherein the supplementary units comprise one of

- a) as few as 2 and as many as 8 volute springs fitted coaxially in each other and surrounding the axis of the upper part and

- (b) volute springs positioned symmetrically about the axis of the upper part.

17. (new) The device according to claim 15, wherein the release mechanism comprises a release button situated at the an upper end of the upper part and attached to a release rod that extends along the axis of the upper part to the lock mechanism.

18. (new) The device according to claim 16, wherein the release mechanism comprises a release button situated at the an upper end of the upper part and attached to a release rod that extends along the axis of the upper part to the lock mechanism.

19. (new) The device according to claim 15, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

20. (new) The device according to claim 16, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

21. (new) The device according to claim 17, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

22. (new) The device according to claim 15, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

23. (new) The device according to claim 16, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

24. (new) The device according to claim 17, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

25. (new) The device according to claim 18, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

26. (new) The device according to claim 19, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

27. (new) The device according to claim 20, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

28. (new) The device according to claim 21, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.